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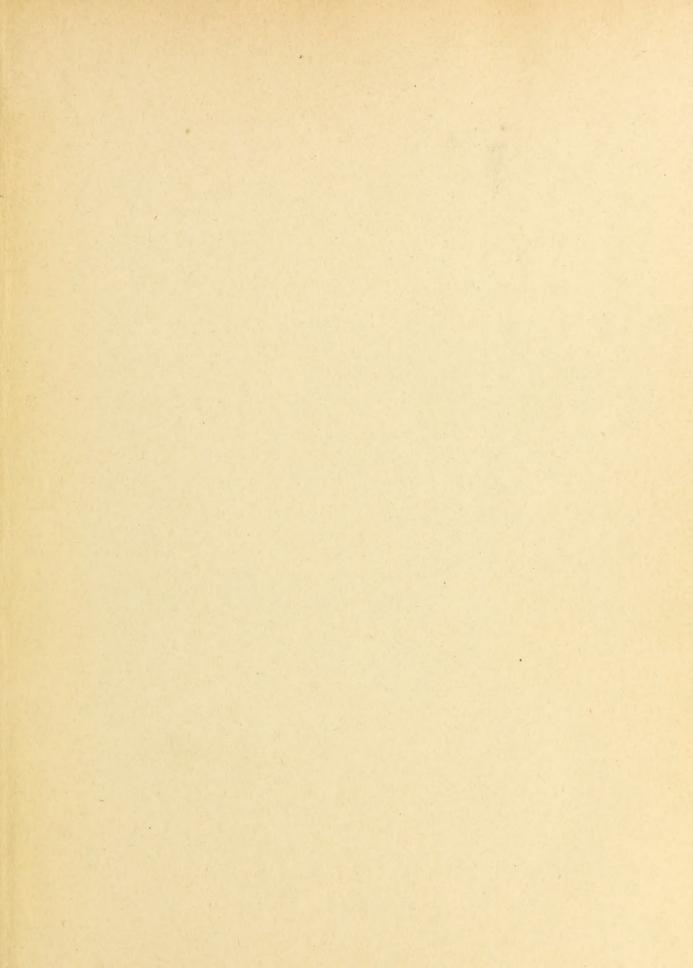
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 - 21. Practical Assistance to larmers, Lumbermen, and Others
 - 22. Preoficel Assistance to Free Planters

U. S. DEPARTMENT OF AGRICULTURE

read with ties is shown DIVISION OF FORESTRY

tension of the roads. It is est Washington, D. C., April 5, 1886.

Dear Sir roads has taken the available timber from as area as

for all concerned in the public welfare of giving serious thought to the growing importance of the forestry question to the country as a whole and to the individual States. In trust that the warning voices pointing out the dangers to the welfare of the country, arising from an indiscriminate destruction of forests without adequate provision for their restoration, have been heard by you, and also the suggestion that, in order to arrest the tendency to wastefulness in this particular, it is necessary to look first of all to the aid of public schools and other means of education.

sidered only from a material point of view, let me submit to you a few striking figures which seem to approximates the state of affairs as arrived at in the preliminary investigations carried on by this Department.

The forest area of the United States seems to be less than 450 million acres, of which more than 10 million acres yearly are destroyed by fire, and to supply the needs of fuel, ties, lumber, etc., it is estimated that certainly not less than 10 million acres are denuded, altogether an area of over 60,000 acres per diem, the product representing a value of more than \$700,000 per annum.

U. G. DEPARTMENT OF AGRICULTURE DIVISION OF FORESTRY

Weshington, D. C., April 5, 1886.

THEAT SIE!

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The consumption of the forests in supplying our railroads with ties is enormous and increasing with the rapid extension of the roads. It is estimated that the building of
existing roads has taken the available timber from an area as
large as the States of Rhode Island and Connecticut, and that
to keep them in repair by replacing decayed ties with new ones
requires annually the yield of more than 500,000 acres.

In 1853 the forest area of Ohio was 55.27 per cent of the area of the State. In 1881 it was but 22.53 per cent. A similar rapid consumption of the forests has taken place in other States. In many cases the flow of streams has been lessened or made irregular by the removal of the forests from their vicinity. Floods and droughts have become more frequent and destructive from the same cause, and agriculture and manufactures have suffered greatly in consequence. The consumption of the forests so far exceeds their growth that, if no effective measures are taken to check the decline, the forests would entirely disappear within a hundred years. The great pine forests of the northwest will hardly last till the close of the present century.

I will only allude to the more complicated and sometimes disputed influences which the forests exert upon the agricultural and hydrological conditions of its surroundings. Your acquaintance with the history of older nations and the observations recorded on this continent will convince you that this is at least a subject which requires serious attention.

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This Department in its Forestry Division has been charged to obtain such information as may form a basis for intelligent action, and to exert, by the diffusion of accurate knowledge on the subject and otherwise, its influence in leading to a reform in the present methods of using the forests and to secure their renewal.

This most desirable work, however, is only inadequately provided for by the appropriation given by Congress
for the purpose. And the difficulty of obtaining precise
and reliable information as to actual conditions and needs
is great.

Knowing that there is no body of men in the country, as a class more intelligent and more capable of aiding this important work, nay more interested in it, than the educators of the coming generation, perceiving also that the two purposes of obtaining and diffusing information for which this Forestry Division was constituted are subserved at one and the same time by the following plan, I would respectfully ask your consideration and support of the same.

It is proposed --

lst. To engage the force of teachers under your superintendence upon the ascertainment of facts in regard to forest areas, their distribution, utilization, etc., in their immediate precints.

2nd. By thus directing their attention to the subject and supplying them with such information as the Department may be able to give in regard to forestry, to have their own and their pupils' interest excited, and thus by direct in-

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fluences to arouse a desire to understand the questions in-

It is not proposed to introduce a new branch into the course of studies, but simply to create a moral sentiment which will do its share in enlarging the views of those soon to become citizens.

Nor is it believed that such work, properly laid out and directed from here, will involve much time or undue attention on the part of the teachers, but while bringing them into sympathy with a national undertaking will afford them not only pastime and recreation but with the consciousness of performing an important duty of citizenship.

Awaiting your favorable consideration of this plan,
Respectfully,

B. E. Fernow,

Chief of Division.

